

CLAIMS

What is claimed is:

1 1. A method of automatically populating a contact database in a mobile
2 communication device configured to communicate voice and data over a
3 wireless network, the method comprising:
4 receiving a telephone number associated with a voice call involving the
5 mobile communication device; and
6 when a data connection is established between the mobile communication
7 device and a remote processing system via the wireless network, then
8 automatically
9 obtaining data associated with the telephone number via the
10 wireless network, and
11 storing the data in the contact database in association with the
12 telephone number.

1 2. A method as recited in claim 1, wherein said receiving the telephone number
2 comprises receiving Caller-ID information including the telephone number and
3 associated with an incoming call to the mobile communication device.

1 3. A method as recited in claim 1, wherein said receiving the telephone number
2 comprises receiving a telephone number associated with an outgoing call being
3 placed by a user of the mobile communication device.

4. A method as recited in claim 1, further comprising attempting to locate the data associated with the telephone number in the contact database, wherein said obtaining data associated with the telephone number via the wireless network is performed only after failing to locate the in the contact database.

1 5. A method as recited in claim 1, wherein the mobile communication device
2 comprises a browser to allow a user of the mobile communication device to
3 navigate hypermedia information, and wherein said obtaining the data
4 associated with the telephone number via the wireless network is done
5 automatically by the browser.

1 6. A method as recited in claim 1, wherein said obtaining the data associated
2 with the telephone number comprises automatically requesting the data
3 associated with the telephone number from a remote server via the wireless
4 network when the data connection is established.

1 7. A method as recited in claim 1, wherein the obtained data associated with the
2 telephone number is contained in a vCard.

1 8. A method as recited in claim 1, wherein the obtained data associated with the
2 telephone number comprises name or address information associated with the
3 telephone number.

1 9. A method as recited in claim 1, wherein the obtained data associated with the
2 telephone number comprises ring tone data for use to generate a ring tone
3 indicating the incoming voice call.

1 10. A method of operating a browser in a mobile communication device
2 configured to communicate voice and data over a wireless network, the browser
3 to enable a user of the mobile communication device to access and navigate
4 hypermedia data, the method comprising:

5 receiving a telephone number at the browser in response to the mobile
6 communication device receiving or initiating a voice call over the wireless
7 network;

8 in response to receiving the telephone number, automatically determining
9 whether data of a predetermined type associated with the telephone number is
10 stored in a contact database in the mobile communication device;

11 if the data associated with the telephone number is not stored in the
12 contact database, then

13 waiting to establish a data connection with a remote server via the
14 wireless network, and when the data connection is established,

15 automatically requesting the data associated with the telephone
16 number from the remote server via the wireless network,

17 receiving the data associated with the telephone number via the
18 wireless network, and

1 16. A machine-readable program storage medium storing instructions for
2 execution in a mobile communication device configured to communicate voice
3 and data over a wireless network, to cause the mobile communication device to
4 execute a process of automatically populating a contact database in the mobile
5 communication device, the process comprising:
6 receiving a telephone number associated with a voice call involving the
7 mobile communication device; and
8 when a data connection is established between the mobile communication
9 device and a remote processing system via the wireless network, then
10 automatically
11 obtaining data associated with the telephone number via the
12 wireless network, and
13 storing the data in the contact database in association with the
14 telephone number.

1 17. A machine-readable program storage medium as recited in claim 16, wherein
2 said receiving the telephone number comprises receiving Caller-ID information
3 including the telephone number and associated with an incoming call to the
4 mobile communication device.

1 18. A machine-readable program storage medium as recited in claim 16, wherein
2 said receiving the telephone number comprises receiving a telephone number

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3 associated with an outgoing call being placed by a user of the mobile
4 communication device.

1 19. A machine-readable program storage medium as recited in claim 16, wherein
2 the process further comprises attempting to locate the data associated with the
3 telephone number in the contact database, wherein said obtaining data
4 associated with the telephone number via the wireless network is performed
5 only after failing to locate the in the contact database.

1 20. A machine-readable program storage medium as recited in claim 16, wherein
2 the instructions are part of a browser to allow a user of the mobile
3 communication device to navigate hypermedia information, and wherein said
4 obtaining the data associated with the telephone number via the wireless
5 network is done automatically by the browser.

1 21. A machine-readable program storage medium as recited in claim 16, wherein
2 said obtaining the data associated with the telephone number comprises
3 automatically requesting the data associated with the telephone number from a
4 remote server via the wireless network when the data connection is established.

1 22. A machine-readable program storage medium as recited in claim 16, wherein
2 the obtained data associated with the telephone number is contained in a vCard.

1 26. A mobile communication device as recited in claim 25, wherein said
2 receiving from the telephony unit the telephone number comprises receiving
3 Caller-ID information including the telephone number and associated with an
4 incoming call to the mobile communication device.

1 27. A mobile communication device as recited in claim 25, wherein said
2 receiving the telephone number comprises receiving from the telephony unit a
3 telephone number associated with an outgoing call being placed by a user of the
4 mobile communication device.

1 28. A mobile communication device as recited in claim 25, wherein the process
2 further comprises attempting to locate the data associated with the telephone
3 number in the contact database, wherein said obtaining data associated with the
4 telephone number via the wireless network is performed only after failing to
5 locate the in the contact database.

1 29. A mobile communication device as recited in claim 25, wherein the
2 instructions are part of a browser to allow a user of the mobile communication
3 device to navigate hypermedia information, and wherein said obtaining the data
4 associated with the telephone number via the wireless network is done
5 automatically by the browser.

1 30. A mobile communication device as recited in claim 25, wherein said
2 obtaining the data associated with the telephone number comprises
3 automatically requesting the data associated with the telephone number from a
4 remote server via the wireless network when the data connection is established.

31. A mobile communication device as recited in claim 25, wherein the obtained
data associated with the telephone number is contained in a vCard.

32. A mobile communication device as recited in claim 25, wherein the obtained data associated with the telephone number comprises name or address information associated with the telephone number.

33. A mobile communication device as recited in claim 25, wherein the obtained
data associated with the telephone number comprises ring tone data for use to
generate a ring tone indicating the incoming voice call.